

## **ABSTRACT OF THE INVENTION**

**[0076]** The present invention discloses articles containing a coating composition, as well as methods of making and using the compositions which, when applied to a substrate and cured, provide articles having transparent abrasion resistant coatings, wherein the coatings have a matched refractive index to that of the substrate and can be tailored to control the extent of tint absorption (vide infra). The coating compositions comprise an aqueous-organic solvent mixture containing a mixture of hydrolysis products and partial condensates of an epoxy-functional silane, a carboxylic acid functional compound selected from the group consisting of carboxylic acids, multifunctional carboxylic acids, anhydrides, and combinations thereof, a metal oxide composite colloid, and a disilane. The coating compositions may further include a mixture of hydrolysis products and partial condensates of one or more silane additives, a colloidal silica material, and a tetrafunctional silane.